



## CERTIFICATE of ANALYSIS (COA)

|                    |                             |
|--------------------|-----------------------------|
| COMMON NAME        | Labdanum Absolute - Clear   |
| LATIN NAME         | <i>Cistus ladaniferus</i>   |
| COUNTRY OF ORIGIN  | Spain                       |
| CULTIVATION METHOD | Wild Grown                  |
| TYPE               | Absolute                    |
| EXTRACTION METHOD  | Solvent Extraction          |
| PLANT PART         | Oleoresin                   |
| USE                | Natural Perfumery, Incense. |

|                    |           |
|--------------------|-----------|
| SKU                | 490       |
| LOT #              | 30        |
| MANUFACTURING DATE | June 2025 |
| BEST BY DATE       | June 2030 |

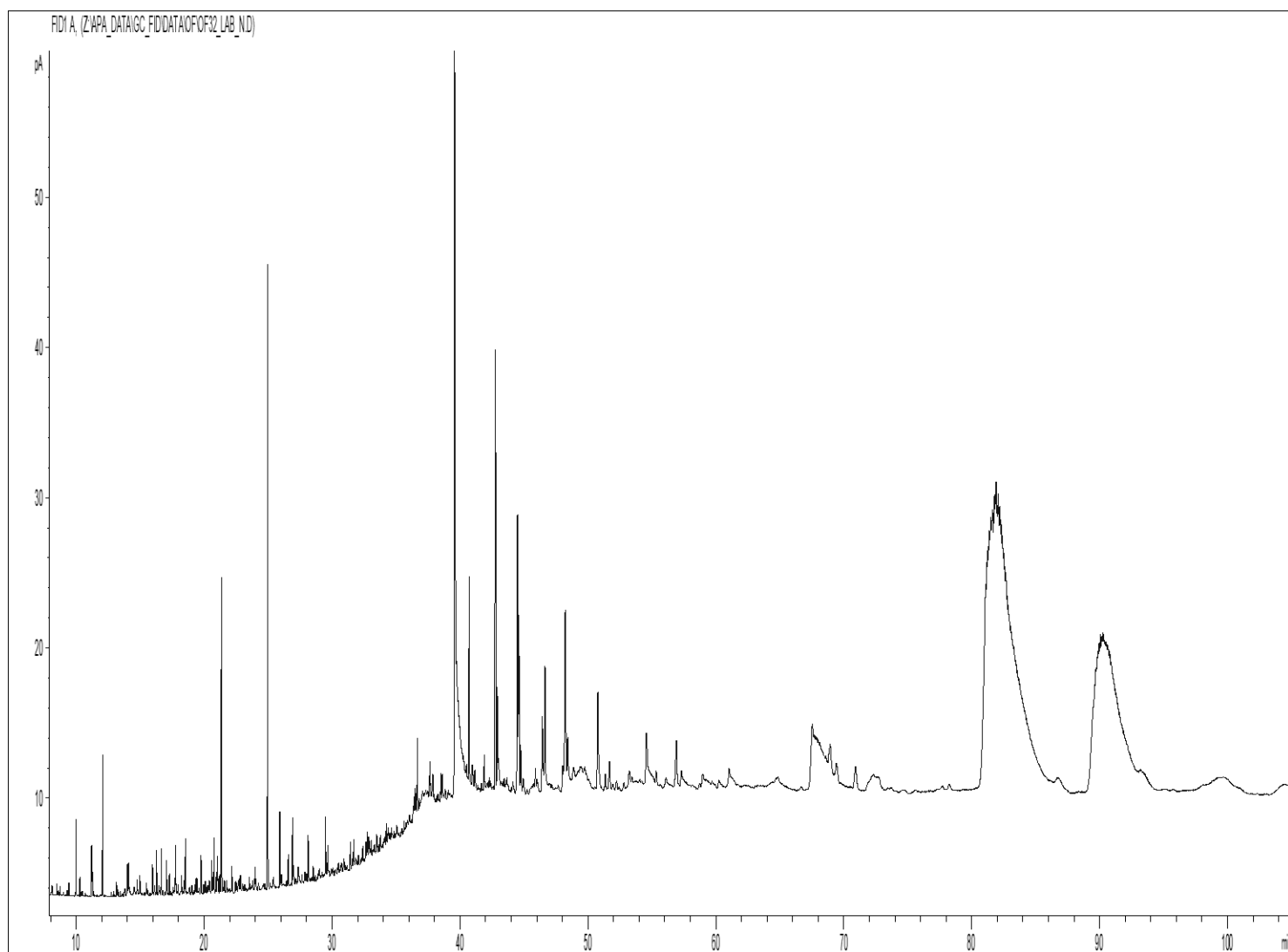
|                        |                        |    |
|------------------------|------------------------|----|
|                        | SPECIFICATIONS (Range) |    |
| SPECIFIC GRAVITY @20°C | na                     | na |
| REFRACTIVE INDEX @20°C | na                     | na |
| OPTICAL ROTATION @20°C | na                     | na |

|                          |                                                           |          |
|--------------------------|-----------------------------------------------------------|----------|
| PHYSICAL APPEARANCE      | Thick and resinous substance                              | Conforms |
| COLOR                    | Reddish brown                                             | Conforms |
| ODOR                     | Deep, sweet balsamic aroma with ambergris-like undertone. | Conforms |
| SOLUBILITY               | Soluble in alcohol and fixed oils                         |          |
| SPECIAL USE INSTRUCTIONS | Dilute before use                                         |          |

|                      |                              |
|----------------------|------------------------------|
| PRIMARY CONSTITUENTS | Diterpenes, Labdanolic Acid. |
|----------------------|------------------------------|

## GCMS ANALYSIS

### CHROMATOGRAPHIC PROFILE



- LABDANUM CLEAR ABS - SKU 490 LOT 30 -

| Peaks | RT (min) | Compound name                   | %    | Standard (%) | Allergens (%) |
|-------|----------|---------------------------------|------|--------------|---------------|
| 1     | 9.98     | p-CYMENE                        | 0.16 |              |               |
| 2     | 10.28    | TERPINOLENE                     | 0.04 |              | 0.04          |
| 3     | 11.20    | CYCLOHEXANONE, 2,2,6-TRIMETHYL- | 0.12 |              |               |
| 4     | 11.25    | PINOL                           | 0.06 |              |               |
| 5     | 13.15    | AROMATIC COMPOUND               | 0.04 |              |               |
| 6     | 14.00    | alpha,p-DIMETHYLSTYRENE         | 0.10 |              |               |
| 7     | 14.10    | ACETIC ACID                     | 0.09 |              |               |
| 8     | 14.53    | ALIPHATIC ALCOHOL               | 0.04 |              |               |
| 9     | 14.76    | VITISPIRANE                     | 0.04 |              |               |
| 10    | 14.97    | SESQUITERPENE                   | 0.05 |              |               |
| 11    | 15.47    | ISOLEDENE                       | 0.04 |              |               |
| 12    | 15.95    | SESQUITERPENE                   | 0.10 |              |               |
| 13    | 16.28    | PINOCAMPHONE                    | 0.13 |              |               |
| 14    | 16.65    | alpha-GURJUNENE                 | 0.13 |              |               |
| 15    | 17.06    | SESQUITERPENE                   | 0.11 |              |               |
| 16    | 17.28    | SESQUITERPENE                   | 0.06 |              |               |
| 17    | 17.75    | BORNYL ACETATE                  | 0.18 |              |               |
| 18    | 17.97    | ALIPHATIC ALCOHOL               | 0.05 |              |               |
| 19    | 18.26    | COMPOUND Mw=128                 | 0.05 |              |               |
| 20    | 18.54    | SESQUITERPENE                   | 0.17 |              |               |
| 21    | 19.34    | SESQUITERPENE                   | 0.05 |              |               |
| 22    | 19.45    | SESQUITERPENE                   | 0.07 |              |               |
| 23    | 19.77    | SESQUITERPENE                   | 0.11 |              |               |
| 24    | 20.12    | SESQUITERPENE                   | 0.05 |              |               |
| 25    | 20.43    | COMPOUND Mw=170                 | 0.04 |              |               |
| 26    | 20.60    | BORNEOL                         | 0.12 |              |               |
| 27    | 20.78    | LEDENE                          | 0.16 |              |               |
| 28    | 20.93    | SESQUITERPENE                   | 0.05 |              |               |
| 29    | 21.04    | VERBENONE                       | 0.12 |              |               |
| 30    | 21.09    | SESQUITERPENE                   | 0.04 |              |               |
| 31    | 21.22    | CARVENONE                       | 0.06 |              |               |
| 32    | 21.36    | SESQUITERPENE                   | 0.90 |              |               |
| 33    | 21.61    | CARVONE                         | 0.04 |              | 0.04          |
| 34    | 21.78    | COMPOUND Mw=232                 | 0.05 |              |               |
| 35    | 22.17    | delta-CADINENE                  | 0.07 |              |               |
| 36    | 22.22    | CADINA-1,4-DIENE                | 0.05 |              |               |
| 37    | 22.47    | SESQUITERPENE                   | 0.04 |              |               |
| 38    | 22.56    | p-METHYLACETOPHENONE            | 0.04 |              |               |
| 39    | 22.74    | SESQUITERPENE                   | 0.04 |              |               |
| 40    | 22.85    | SESQUITERPENE                   | 0.05 |              |               |
| 41    | 23.55    | COMPOUND Mw=220                 | 0.04 |              |               |
| 42    | 23.99    | CALAMENENE                      | 0.08 |              |               |
| 43    | 24.98    | ETHYL PHENYL PROPIONATE         | 1.59 |              |               |

- LABDANUM CLEAR ABS - SKU 490 LOT 30 -

| Peaks | RT (min) | Compound name             | %    | Standard (%) | Allergens (%) |
|-------|----------|---------------------------|------|--------------|---------------|
| 44    | 25.93    | alpha-CALACORENE          | 0.20 |              |               |
| 45    | 26.06    | COMPOUND Mw=220           | 0.04 |              |               |
| 46    | 26.60    | PHENYLETHYLIC ESTER       | 0.08 |              |               |
| 47    | 26.92    | ALKYL BENZENE Mw=186      | 0.17 |              |               |
| 48    | 27.00    | COMPOUND Mw=262           | 0.07 |              |               |
| 49    | 27.37    | COMPOUND Mw=262           | 0.07 |              |               |
| 50    | 27.89    | CUBEBOL                   | 0.04 |              |               |
| 51    | 28.02    | COMPOUND Mw=244           | 0.04 |              |               |
| 52    | 28.15    | COMPOUND Mw=262           | 0.14 |              |               |
| 53    | 28.54    | ACID COMPOUND             | 0.06 |              |               |
| 54    | 28.96    | COMPOUND Mw=260           | 0.04 |              |               |
| 55    | 29.50    | COMPOUND Mw=260           | 0.22 |              |               |
| 56    | 29.68    | COMPOUND Mw=220           | 0.14 |              |               |
| 57    | 30.08    | DITERPENE                 | 0.04 |              |               |
| 58    | 30.51    | DITERPENE                 | 0.04 |              |               |
| 59    | 30.75    | EUGENOL                   | 0.06 |              | 0.06          |
| 60    | 30.93    | COMPOUND Mw=270           | 0.07 |              |               |
| 61    | 31.44    | 5-epi-7-epi-alpha-EUDESOL | 0.09 |              |               |
| 62    | 31.72    | CARVACROL                 | 0.13 |              |               |
| 63    | 32.07    | CADALENE                  | 0.05 |              |               |
| 64    | 32.41    | COMPOUND Mw=264           | 0.06 |              |               |
| 65    | 32.67    | ETHYL PALMITATE           | 0.09 |              |               |
| 66    | 32.78    | FURANIC COMPOUND          | 0.10 |              |               |
| 67    | 32.92    | COMPOUND Mw=270           | 0.08 |              |               |
| 68    | 33.09    | ALIPHATIC ESTER           | 0.06 |              |               |
| 69    | 33.33    | DITERPENE                 | 0.06 |              |               |
| 70    | 33.51    | COMPOUND Mw=270           | 0.09 |              |               |
| 71    | 33.79    | COMPOUND Mw=270           | 0.09 |              |               |
| 72    | 34.15    | DITERPENE                 | 0.04 |              |               |
| 73    | 34.25    | DITERPENE                 | 0.09 |              |               |
| 74    | 34.38    | DITERPENE                 | 0.08 |              |               |
| 75    | 34.46    | COMPOUND Mw=276           | 0.05 |              |               |
| 76    | 34.66    | ALDEHYDIC COMPOUND        | 0.12 |              |               |
| 77    | 35.08    | DITERPENE                 | 0.10 |              |               |
| 78    | 35.65    | COMPOUND Mw=276           | 0.04 |              |               |
| 79    | 35.89    | DITERPENE                 | 0.04 |              |               |
| 80    | 36.08    | COMPOUND Mw=262           | 0.07 |              |               |
| 81    | 36.42    | COMPOUND Mw=282           | 0.11 |              |               |
| 82    | 36.51    | COMPOUND Mw=290           | 0.08 |              |               |
| 83    | 36.69    | ETHYL STEARATE            | 0.19 |              |               |
| 84    | 36.82    | LAURIC ACID               | 0.04 |              |               |
| 85    | 37.66    | ALIPHATIC ESTER           | 0.11 |              |               |
| 86    | 37.88    | COMPOUND Mw=304           | 0.10 |              |               |

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| Peaks | RT (min) | Compound name             | %           | Standard (%) | Allergens (%) |
|-------|----------|---------------------------|-------------|--------------|---------------|
| 87    | 38.51    | COMPOUND Mw=292           | 0.10        |              |               |
| 88    | 38.62    | COMPOUND Mw=326           | 0.14        |              |               |
| 89    | 38.86    | COMPOUND Mw=296           | 0.06        |              |               |
| 90    | 39.58    | <b>HYDROCINNAMIC ACID</b> | <b>7.06</b> |              |               |
| 91    | 40.73    | ALIPHATIC ESTER Mw=340    | 0.75        |              |               |
| 92    | 40.98    | ALIPHATIC ESTER           | 0.12        |              |               |
| 93    | 41.18    | ACID COMPOUND             | 0.08        |              |               |
| 94    | 41.70    | COMPOUND Mw=332           | 0.04        |              |               |
| 95    | 41.90    | ALIPHATIC ESTER Mw=354    | 0.13        |              |               |
| 96    | 42.33    | ALIPHATIC ESTER Mw=354    | 0.04        |              |               |
| 97    | 42.78    | COMPOUND Mw=334           | 1.82        |              |               |
| 98    | 42.93    | COMPOUND Mw=334           | 0.47        |              |               |
| 99    | 43.03    | COMPOUND Mw=332           | 0.20        |              |               |
| 100   | 43.23    | COMPOUND Mw=334           | 0.05        |              |               |
| 101   | 43.69    | ALIPHATIC ESTER           | 0.10        |              |               |
| 102   | 44.15    | ALIPHATIC ESTER           | 0.07        |              |               |
| 103   | 44.51    | ACID COMPOUND Mw=334      | 1.26        |              |               |
| 104   | 44.61    | COMPOUND Mw=334           | 0.76        |              |               |
| 105   | 44.76    | COMPOUND Mw=334           | 0.25        |              |               |
| 106   | 44.95    | COMPOUND Mw=334           | 0.12        |              |               |
| 107   | 45.78    | COMPOUND Mw=332           | 0.07        |              |               |
| 108   | 45.91    | ALIPHATIC ESTER Mw=368    | 0.14        |              |               |
| 109   | 46.05    | COMPOUND Mw=332           | 0.09        |              |               |
| 110   | 46.45    | PALMITIC ACID             | 0.45        |              |               |
| 111   | 46.66    | ALIPHATIC ESTER Mw=368    | 0.68        |              |               |
| 112   | 48.04    | ALIPHATIC ESTER           | 0.14        |              |               |
| 113   | 48.24    | COMPOUND Mw=292           | 1.27        |              |               |
| 114   | 48.44    | COMPOUND Mw=292           | 0.32        |              |               |
| 115   | 48.89    | COMPOUND Mw=290           | 0.11        |              |               |
| 116   | 50.79    | COMPOUND Mw=292           | 0.73        |              |               |
| 117   | 51.37    | COMPOUND Mw=330           | 0.10        |              |               |
| 118   | 51.69    | COMPOUND Mw=276           | 0.19        |              |               |
| 119   | 51.96    | COMPOUND Mw=350           | 0.05        |              |               |
| 120   | 52.83    | COMPOUND Mw=330           | 0.04        |              |               |
| 121   | 53.25    | COMPOUND Mw=328           | 0.13        |              |               |
| 122   | 53.45    | SESQUITERPENIC COMPOUND   | 0.05        |              |               |
| 123   | 54.58    | STEARIC ACID              | 0.43        |              |               |
| 124   | 55.35    | COMPOUND Mw=376           | 0.09        |              |               |
| 125   | 56.93    | COMPOUND Mw=392           | 0.41        |              |               |
| 126   | 57.32    | COMPOUND Mw=298           | 0.13        |              |               |
| 127   | 58.97    | COMPOUND Mw=326           | 0.11        |              |               |
| 128   | 67.57    | <b>ARACHIDIC ACID</b>     | <b>4.76</b> |              |               |
| 129   | 68.95    | COMPOUND Mw=354           | 0.28        |              |               |

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| Peaks | RT (min) | Compound name          | %            | Standard (%) | Allergens (%) |
|-------|----------|------------------------|--------------|--------------|---------------|
| 130   | 69.44    | COMPOUND Mw=430        | 0.16         |              |               |
| 131   | 70.93    | COMPOUND Mw=320        | 0.29         |              |               |
| 132   | 81.90    | <b>COMPOUND Mw=306</b> | <b>43.22</b> |              |               |
| 133   | 90.23    | <b>COMPOUND Mw=306</b> | <b>19.47</b> |              |               |
|       |          | <b>TOTAL</b>           | <b>96.72</b> |              | <b>0.14</b>   |

This Absolute is a 100% pure and natural product and does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge. The analysis and statements herein constitute the most complete information available to Eden Botanicals. This product is guaranteed by Eden Botanicals to be of excellent quality.

Eden Botanicals

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